

NAT I Computer Science Mathematics

Sr	Questions	Answers Choice
1	The cube roots of unity ω =	A. 1-i √-3 / 2 B1+i √-3 / 2i C1+i √3 / 2 D. 1+i √3 / 2
2	One of the roots of the equation $2x^2 + 3x + n = 0$ is the reciprocal of the other, then $n =$	A. Both A,B have the same number of columns B. Both A,B do not have the same order C. Number of col A is same as number of rows of B D. Number of rows of A is same as number of col of B
3	The degree of the polynomial $2x^4 + 3x^2 + 16x + 28 = x^4 + 2x^2$ is	A. [a _{ij -} b _{ji}] B. [a _{ij -} b _{ij}] C. [a _{j -} b _{ij}] D. [a _{ij -} b _{ij}]
4	If α and β be irrational roots of a quadratic equation, then	A. α = b/a and β = ca B. α = a/b and β = -c/a C. α ² + β ² = 1 D. α = -b/a and β = c/a
5	An m x n matrix is said to be rectangular if	A. Forms a group w.r.t. addition B. Non commutative group w.r.t. multiplication C. Forms a group w.r.t. multiplication D. Doesn't form a group
6	If the order of A is n x m. Then order of kA is	A. Forms a group B. Does not form a group C. Contains no additive identity D. Contains no additive inverse
7	If A and B are matrices such that AB=BA=I then	A. A and B are multiplicative inverse of each other B. A and B are additive inverses of each other C. A and B are singular matrices D. A and B are equal
8	If any two rows (or any two columns) of a square matrix are inter changed, the determinant of the resultant matrix is	A. True B. False C. Fallacious D. Some times true
9	In general matrices do not satisfy	A. Not a group B. A group w.r.t. subtraction C. A group w.r.t. division D. A group w.r.t. multiplication
10	If A and B are matrices of same order than (A + B)(A + B)=	A. addition B. multiplication C. subtraction D. None